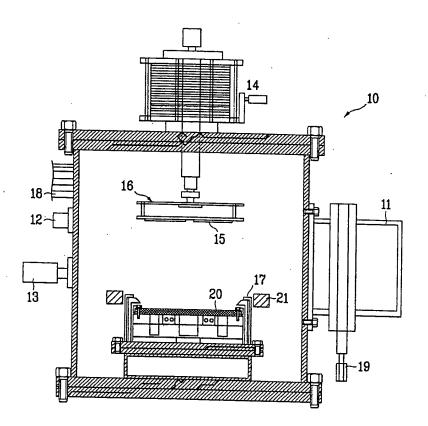
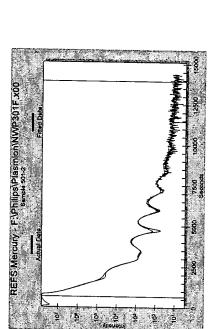
FIG.1



NSIB process



Vitensity 5 5 7 5

Conventional sputtering

REFS Mercury - F. Philips/Plasmion/NWP302F x00

Layer Description	Thickness (A)	Relative Density (%)	Density (a/cm³)
Si Layer	-	100 (fixed)	2.33
SiO ₂	16.5±2.6	100 (fixed)	2.27
Diamond Layer	108.4±1.3	86±2	3.03±0.02
Diamond Layer	25.6±1.3	22±4	0.77±0.04
Si Layer		100 (fixed)	2.33
Diamond Layer	107.5±1.5	62±2	2.18±0.02

NSIB process

Sample

FIG 2

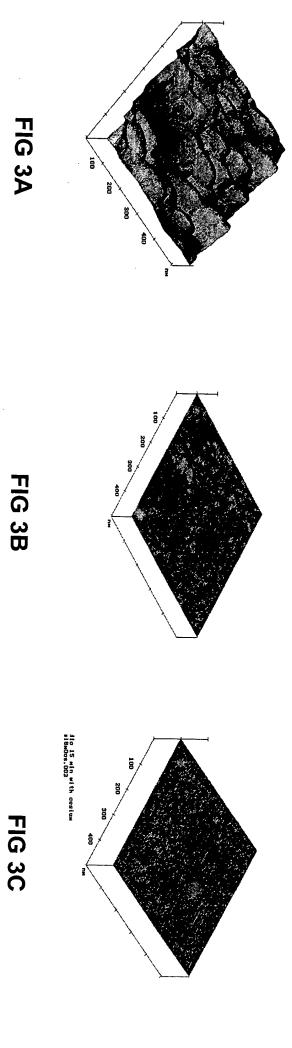
1.16±0.02

33±2

24.2±0.8

Diamond Layer

Conventional sputtering



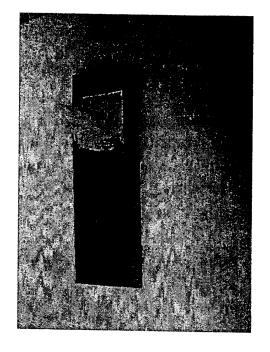


FIG 4B

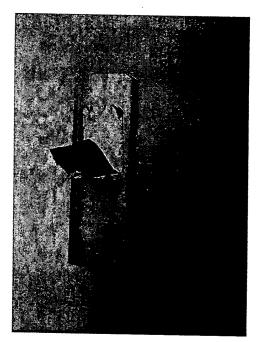


FIG 4A

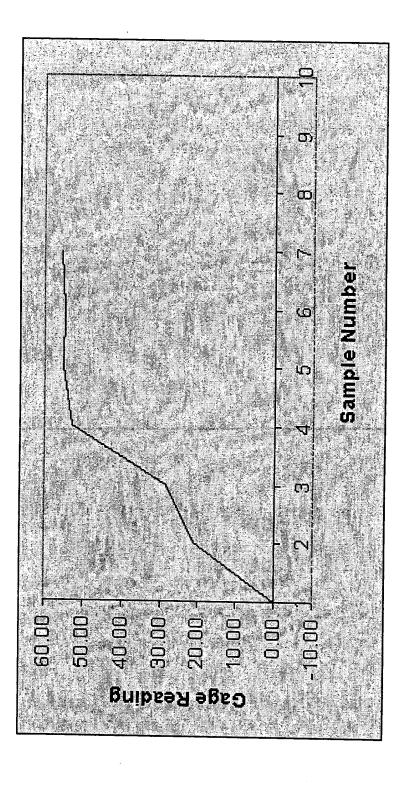
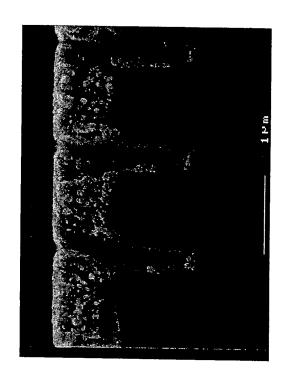
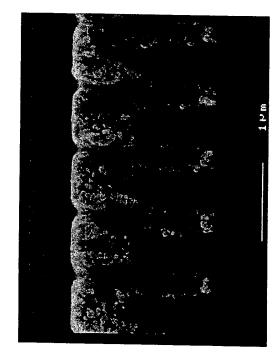
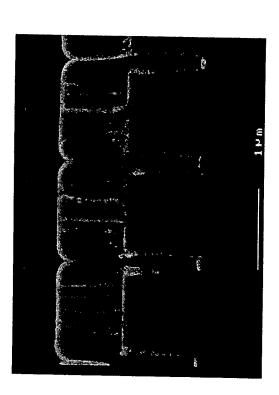


FIG 2







ak Surface Area Summit Zero Crossing Stopband Execute Cursor

Roughness Analysis

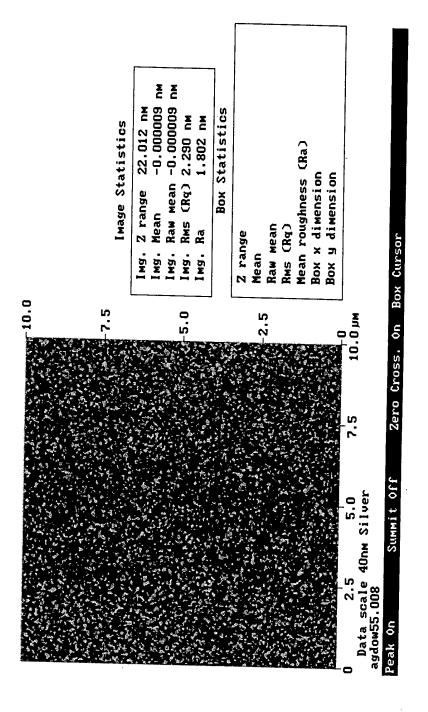


FIG 7A

Peak Surface Area Summit Zero Crossing Stopband Execute Curso Roughness Analysis

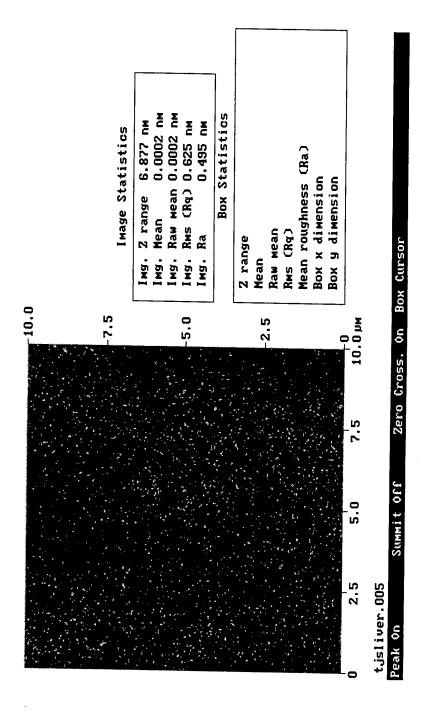


FIG 7B